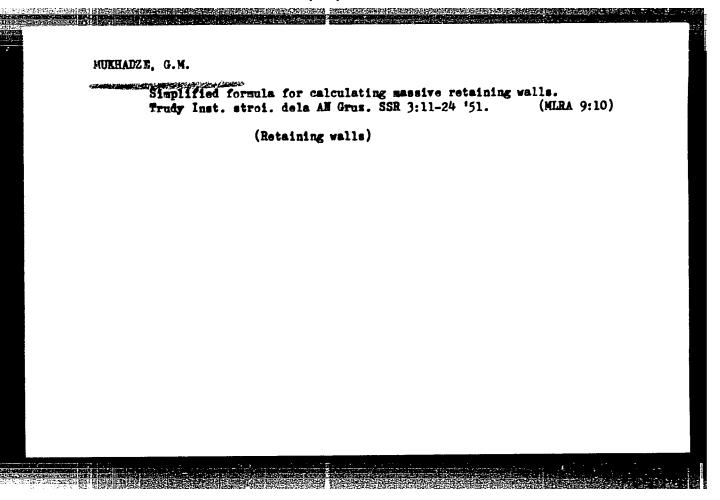
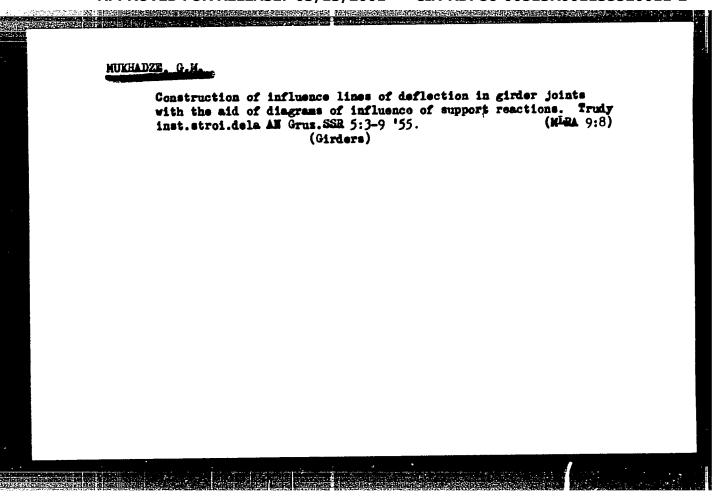
MUKHADOV, G. M., Cand of Vet Sci — (diss) "On the participation of the vegetative nervous system in the pathogenesis of tripanosomiasis su-auru." Ashkhabad, 1957, 26 pp (Turkmen Agricultural Institute im M. I. Kalimin, Chair of Pathological Physiology and Pharmacology), 150 copies (KL, 29-57, 92)





SOV/124-58-7-8079

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 7, p 111 (USSR)

AUTHOR: Mukhadze, G.M.

Using the Method of the Foci of the Moments (Fixed Points) to TITLE:

Calculate Pin-jointed Frames and Continuous Beams (Raschet ram i nerazreznykh balok s promezhutochnymi sharnirami metodom

momentnykh fokusov)

PERIODICAL: Tr. in-ta stroit. dela. AN GruzSSR, 1957, Vol 6, pp 15-29

ABSTRACT: The author presents a variation of the usual formulae associated

with the method of the foci of the moments (fixed points) for calculating continuous beams and fixed frames when the rods have inter-

mediate hinges.

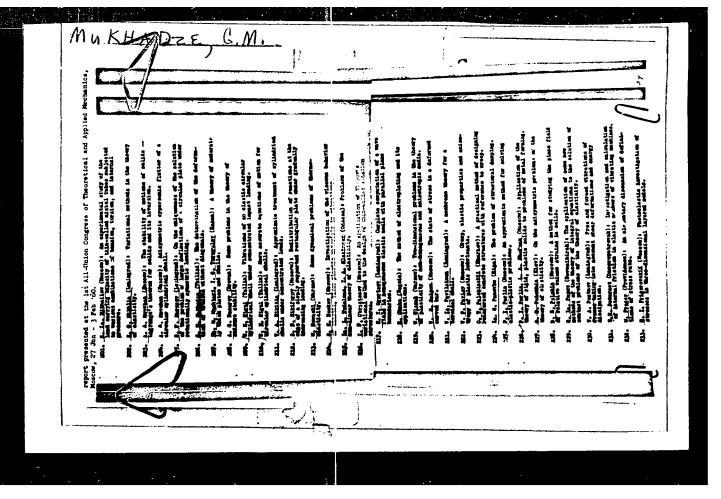
N. K. Snitko

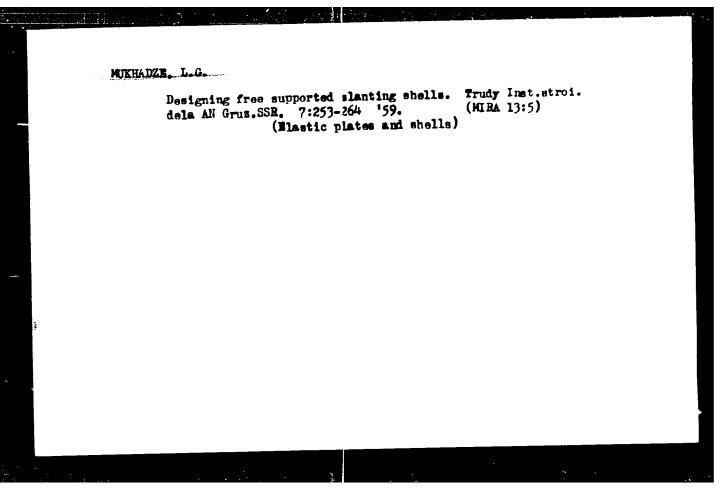
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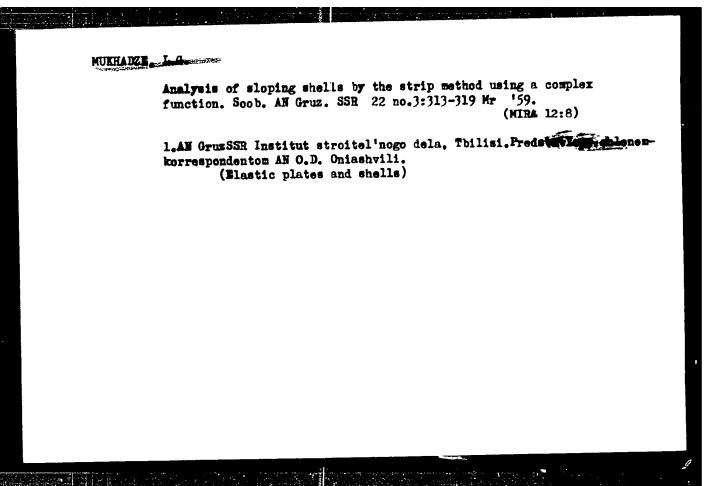
1. Beams--Moments 2. Structures--Moments 3. Mathematics --Applications

Simplifying the method of momental focuses to be used in designing continuous bears. frudy Inst.stroi.dela AN Gruz.SSR 7:3-25 *59. (Girders)

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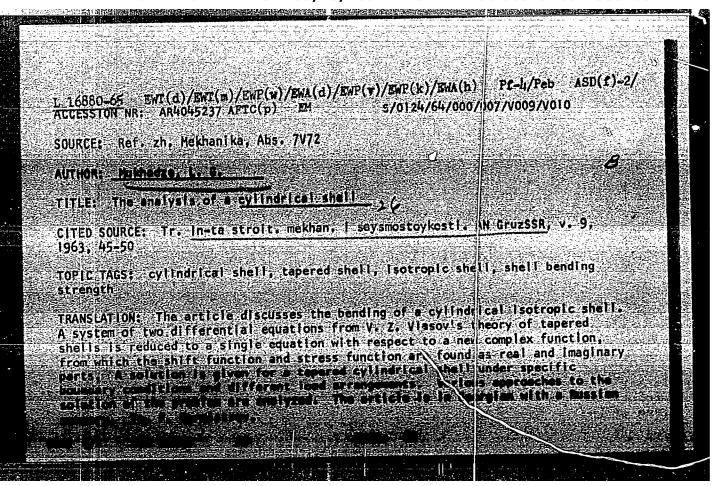


MUKHADZE, L. G. Cand Tech Sci — (diss) "Concerning the calculation of sloping casings by means of zones with the aid of a complex function," Toilisi, 1960, 11 pp, 150 cop. (Georgian Polytechnical Institute im V. I. Lenin) (KL, 42-60, 114)

ZAVRIYEV, K.S.; MUKHADZE, L.G.; LORDKIPANIDZE, R.S., red.;
BOKUCHAVA, T.P., red.izd-wa; DZHAPARIDZE, N.A., tekhn.
red.

[Design of round arches of constant cross section] Raschet krugovykh arok postoiannogo sechenia. Tbilisi, Izd-vo Akad. nauk Gruzinskoi SSR, 1962. 70 p. (MIRA 16:5)

(Arches)



MUKHADZE, M. G.

"Temperature Stresses in Thin Plates." Cand Tech Sci, Georgian Polytechnic Inst imeni S. M. Kirov, 20 Dec 54. (ZV, 9 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556 24 Jun 54

124-57-2-2199

Translation from: Referativnyy zhurnal, Mekhanika. 1957, Nr 2, p 105 (USSR)

AUTHOR: Mukhadze, M.

TITLE: The Flexure of a Hingerattached Plate of Rectangular Contour

> Under the Action of Temperature (Izgib sharnirno zakreplennoy plity pryamougol'nogo ochertaniya pod deystviyem temperatury)

(in Georgian, Russian Resumé)

PERIODICAL: Tr. Gruz. politekhn. in-ta, 1955. Nr 4. pp 99-102

ABSTRACT: The deflections of a hinge-supported rectangular plate under

the action of a linear temperature distribution through the thickness of the plate are determined. The problem is solved by means of the variational method. The deflection function has the form of the product of two functions, each of which depends on but a single coordinate; one of these is given in advance to satisfy the parallel-ends boundary condition, while the other one is found from the condition that it render minimal the functional which leads to a differential equation for the determination of the unknown function for the given boundary conditions along the other ends. Then, employing again Euler's equation, the

author refines the initially given function by using the previously Card 1/1 determined function as the known function. B. F. Karavanov

1. Sheets--Deflection 2. Sheets--Temperature factors

CIA-RDP86-00513R001135520011-2"

APPROVED FOR RELEASE: 03/13/2001

124-57-2-2198

Translation from: Referativnyy zhurnal, Mekhanika, 1957 Nr 2, p 105 (USSR)

AUTHOR Mckhadze M.

TITLE: The Flexure of Hinge-supported Plates of Circular or Lemniscate

Contour Under the Action of Temperature (Izgib sharnirno opertykh plit kruglogo i lemniskatnogo ochertaniya pod deystviyem

temperatury) (in Georgian)

PERIODICAL: Tr. Gruz. politekhn. in-ta. 1955, Nr 4, pp 109-112

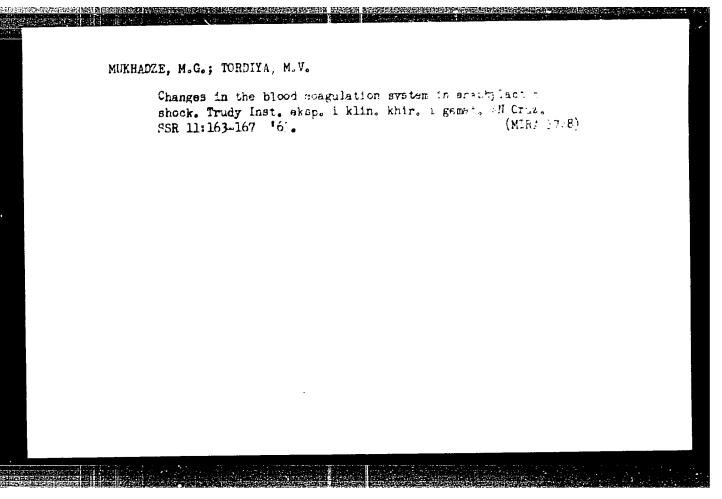
ABSTRACT: Formulas are derived for the determination of the deflection

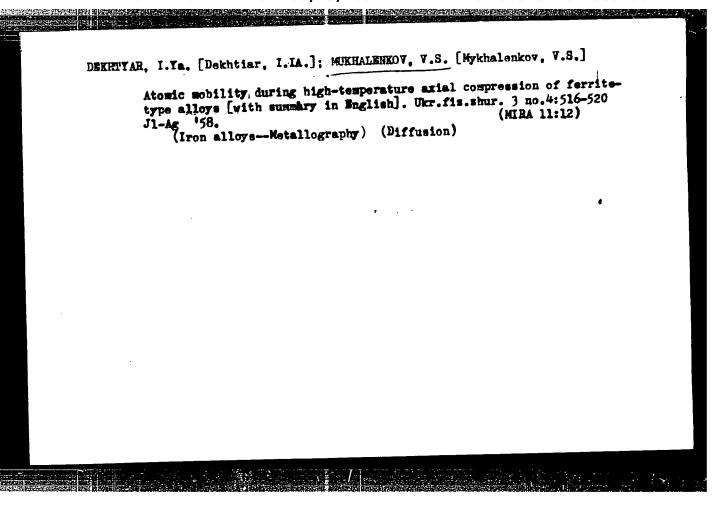
of an arbitrary point of hinge-supported plates having a circular or lemniscate contour; the method of a complex variable is employed. Tables are set up for the computation of the deflection.

Reviewer's name not given

1. Sheets--Deflection 2 Sheets--Temperature fact rs

Card 1/1





CHEBURKOV, Yu.A.; MUKHAMADALIYEV, N.; KNUNYANTS, I.L.

Reaction of hexafluoroisobutyryl fluoride with acid chlorides. Izv. AN SSSR. Ser. khim. no.8:1476-1478 '65. (MIRA 18:9)

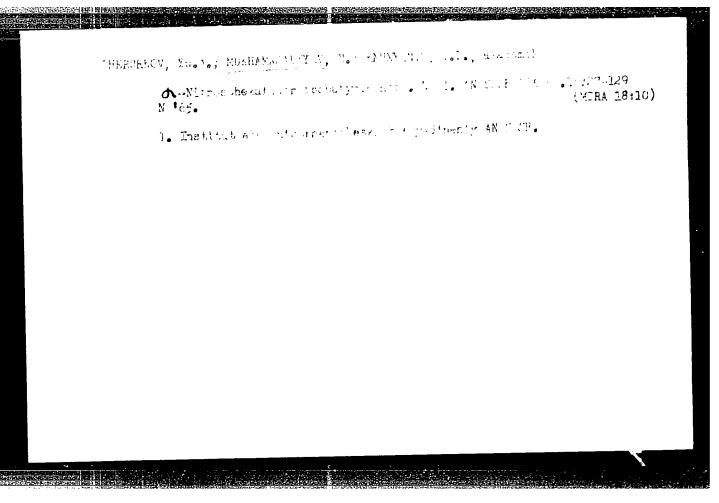
1. Institut elementoorganicheskikh soyedineniy AN SSSR.

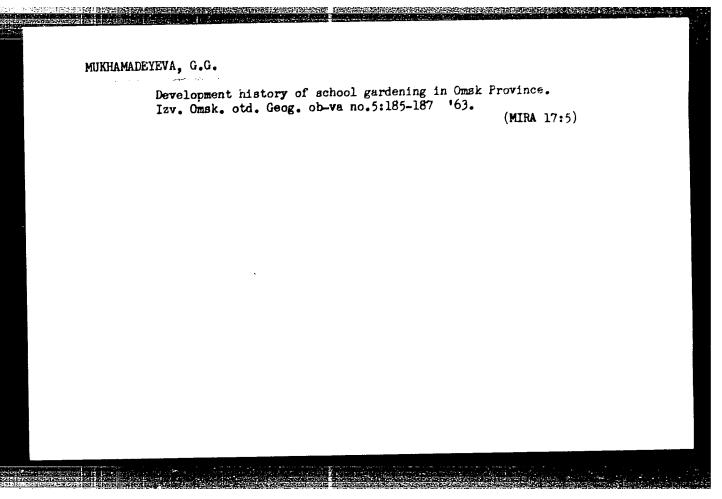
CHEBURKOV, Yu.A.; MUKHAMADALIYEV, N.; ARONOV, Yu.Ye.; KNUNYANTS, I.L.

Reaction of perfluorodimethylketene with dimethylformamide.

Izv. AN SSSR. Ser. khim. no.8:1478-1480 '65. (MIRA 18:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.





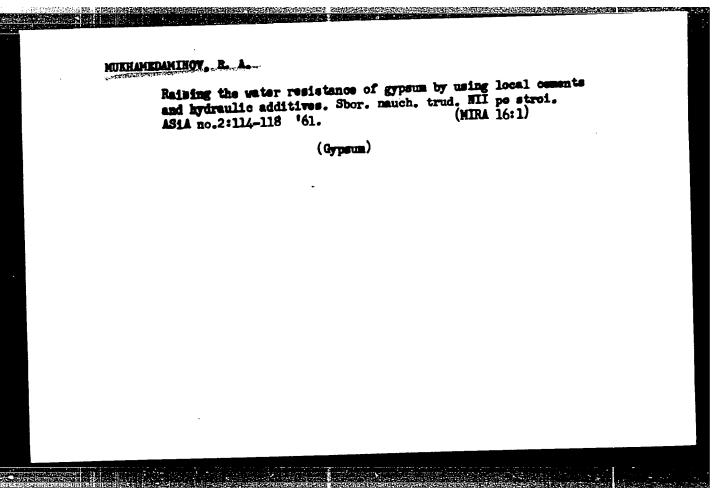
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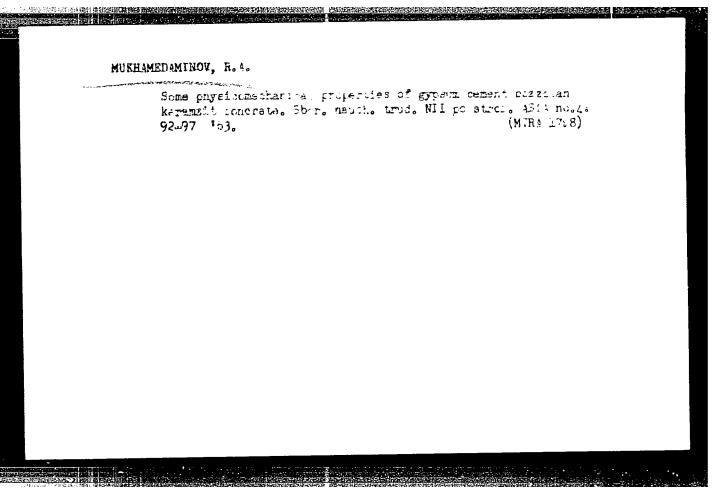
SOURCE CODE: UR/0062/66/000/007/1265/1267 ACC NRI AP7006027 AUTHOR: Cheburkov, Yu. A.; Mukhamadaliyev, N.; Mirzabekyants, N. S.; Knunyants, I. L. ORG: Institute of Heteroorganic Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedineniy AN SSSR) TITLE: Reactions of perfluorodimethylketene with alcohols, amines, and acids SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1966, 1265-1267 TOPIC TAGS: fluorinated organic compound, amine, alcohol, glycerin ABSTRACT: The reactions of perflourodimethylketene with alcohols, amines, and acids were studied. These reactions are common both to perfluorodimethylketene and to nonfluorinated ketenes and lead to the production of various derivatives of hexafluoroisobutyric acid. The reaction with alcohols yielded esters. In the case of glycerin, at room temperature ketene alkylated only two hydroxy groups, either vicinal or terminal. Complete acylation was achieved only by heating the glycerin with excess perfluorodimethylketene in a sealed tube. The reactions of ketene with ammonia and amines yielded amides of hexafluoroisobutyric acid. In these reactions an excess of amines must be avoided to prevent mineralization of the fluorine atoms by splitting off hydrogen fluoride. Perfluorodimethylketne reacted readily with hydrogen chloride or bromide and with organic acids, yielding acid halides, anhydrides, and mixed anhydrides. The structures of the the new compounds were confirmed by infrared and nuclear magnetic resonance spectra. Orig. art. has: 4 formulas and 1 table. [JPRS: 38,967] SUB CODE: 07 / SUBM DATE: 14Dec65 / ORIG REF: 009 542.91 + 547.233 + 547.26 + 541.452 + 546.16 Card 1/1 09270812

MUKIKAMADALIYEV, No; CHEBURKOV, Tuolo; KNINTANIS, LoL.

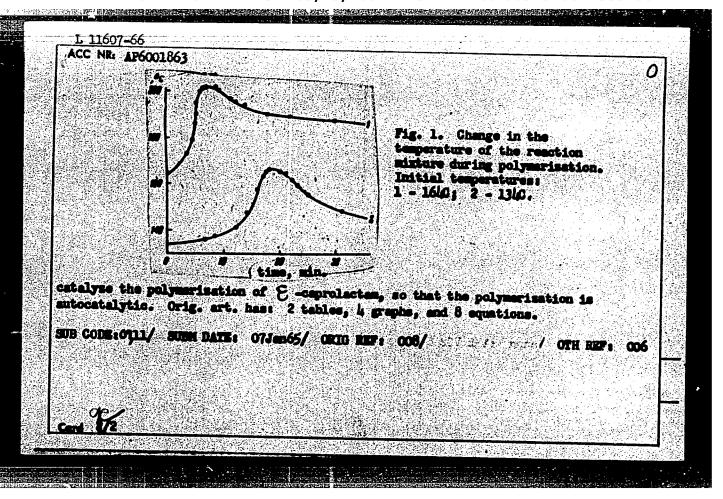
Perfluerodimethylketene. Report No.6: Resistion with derived tives of mitrous sold. Last NN SSSR. Ser. knis. no.11 1982-1987 165. (MIRA 16:11)

1. Institut elementsurgenisheskikh soyedineniy AN SSSR.





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MINKEVICH, B. I., MUKHAMEDAMINOV, R.A.

Polyacrylamide retards the hardening of structural gypsum. Stor.hauch.
trud.fashNIIS no.54216-118 *63.

(MIRA 18-1)

CIA-RDP86-00513R001135520011-2 "APPROVED FOR RELEASE: 03/13/2001

MUKHAMEDEVEV

6 (2)

SOV/111-59-10-2/23

AUTHOR:

None Given

TITLE:

For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

PERIODICAL: Vestnik svyazi, 1959, Nr 10, pp 1-5 (USSR)

ABSTRACT:

This lead article is a condensed report on the work of the fourth plenary session of the Central Committee of the Communications, Auto Transport and Highway Workers' Union which took place in Moscow. The Plenary Session discussed reports by the Ministry of Communications of the USSR, the Ministry of Auto Transport and Highways of the RSFSR, Glavdorstroy of the Ministry of Transport Construction of the USSR, and the chairman of the CC of the Trade Union on the results of the June Plenary Session of the CC of the CPSU and the tasks of trade union organizations in supporting socialist competition. Material from the report of K.Ya. Sergeychuk, deputy minister of communications of the USSR, is first dealt with. This report deals with the question of increasing labor pro-

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807/111-59-10-2/23

For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

ductivity and the related problems of introducing extensive automation and mechanization; labor productivity tasks in the communications industry are largely being fulfilled, he stated. Some of the work done in the field of automation and mechanization are reviewed, and the economy resulting from such work is noted. The report also notes deficiencies in the implementation of assignments for development of communications facilities, particularly in respect to automation and mechanization in the industry. It is reported that in accordance with the decisions of the June Plenary Session of the CC of the CPSU the Ministry of Communications of the USSR has worked out concrete measures on automation and mechanization of production processes in the communications industry; some of the intended goals, within the framework of the sevenyear plan, are outlined in this connection. The deputy minister dwelled at length on the problem of the fulfillment and overfulfillment of plans by communications en-

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

terprises and measures to aid in this work; mentioned in this connection is Valentina Gaganova. The article gives an account of a report by B.G. Romanov, chairman of the Central Committee of the Trade Union, on the role of the trade unions in implementation of the decisions of the June Plenary Session of the CC of the CPSU. Cited for outstanding achievements are communications workers collectives of the Nikolayev and Chernovtsy oblasts, the Central Telegraph Office of the USSR, the Minsk Post Office and the Kiyev Inter-city Telephone Station (MTS), however, it is stated, there are still many backward sections, including the rayon communications offices in the Irkutsk oblast, none of which fulfilled their obligations for the first half year, and those in the Orlov oblast, only 21 out of 30 of which fulfilled their plans; deficiencies in the Vinnitsa oblast are also mentioned. The most important task of the union committees, states the report, is to draw all collectives into socialist

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

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> competition for early fulfillment of the seven-year plan, briefly discussed. Stressing the role of mechanization in the industry, the report outlines mechanization work currently in progress in a number of enterprises: in the Krasnodar kray, in addition to existing mechanization facilities at the Post Office, in the Postal Transport Section (OPP) and in the Sochi communications office. lifters are being installed in the Maykop, Tuapse and Apsheron communications offices; the conversion to semiautomatic equipment in the Armavir, Maykop and Lazarevswe telegraph offices will be completed this year; this will include installation of the latest phototelegraphic apparatus; in the Krasnodar radio centre the control room of the repeater station is being converted to automatic control; 22 intra-rayon (VRS) ATSs over and above the plan level are being set up in the VRS systems. The report also discussed the role of the trade union organi-

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto-Transport and Highway Workers' Union)

zations in automation and mechanization, as well as in the fields of labor protection and safety. It is reported that in accordance with a decision of the praesidium of the VTsSPS reports by and elections of permanent production conferences are now being conducted. The Praesidium of the CC of the Trade Union has worked out practical measures for the successful implementation of the decisions of the June Plenary Session of the CC of the CPSU, outlined by the author, and including the following: the summoning, together with the NTO and the scientificresearch institutes, of conferences in Moscow, Leningrad and Kiyev, devoted to the introduction of mechanization facilities and their economic effect. The balance of the article is devoted to a report on the discussion of reports at the Plenary Session of the CC of the Trade Union, in which 20 persons took part. V.A. Voronov, brigade leader in the maintenance shop of the Central Telegraph Office of the USSR, spoke of the work and successes of his

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

brigade, which, following the example of V. Gaganova. he has left for a backward brigade; also mentioned is Ivanov, technician. M.M. Mukhamedever, chairman of the Kazakh republic Trade Union Committee, reported on measures for implementation of the decisions of the June Plenary Session of the CC of the CPSU projected by the republic committee; in his opinion the Ministry of Communications of the USSR must give much attention to official motor transport, its equipment and proper use. S. Niyazov, chairman of the Tadzhik republik Trade Union Committee, spoke on socialist competition in the republic and the decision for early fulfillment of the 1959 plan, to put the television centre in Stalinabad and the TV relay unit in Leninabad in operation this year, and finish construction of the Stalinabad ATS in 1964; also mentioned is Kalmykov, brigade leader of the SMUR, R.N. Polyakova, chairman of the mestkom (local trade union committee) of the OPP at the Kursk RR station in

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers Union)

Moscow, spoke of mechanization and organization of work at the OPP. A.A. Kazakovtseva, chairman of the russian republic Trade Union Committee, spoke on activities in connection with socialist competition in the BSSR; she reported that oblast' conferences of experts and inventors, as well as meetings of the chairmen of permanent production conferences, were to be held this year for the purpose of pooling experience. B F Anasovich, chief of the TsNIIS, reported on the work of the institute on new communications techniques specifi cally a communications system on coaxial and balanced cables, modernization of 24-channel apparatus, a system of multiplexing radio-relay lines, and the use of tran sistors in communications equipment; he noted that the KR-60 apparatus was awarded a prize at the Brussels Exposition; the institute has developed new equipmer a for telegraphic, phototelegraphic and inter-city telephone communications. G.N. Smirnov, chief of the Moscow Post

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> Office, spoke on post office work, and mechanization at the Moscow P.O.; without the help of TsNIIS, the TsKB and the Main Postal Administration of the Ministry of Communications of the USSR, he said, the problem of complex mechanization of the Post Office cannot be solved + much remains to be done in this respect. He also mentioned Panferova, cashier at the Kiyev RR station (Moscow). K.S. Birulis, deputy minister of communications of the Lithuanian SSR, spoke on several aspects of communications work in Lithuania; by 1961, he said, telephone communication between Vilmius and Kaunas should be auand by the end of the seven-year plan 40 50% tomated, of the republic's communications facilities should be automated; automation of up to 92% of minicipal telephone stations (GTS) can be achieved two years earlier than envisaged in the seven-year plan: a sufficient quantity of multiplexing equipment must be manufactured by GUMTTS; he noted that conversion of GTS equipment in

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

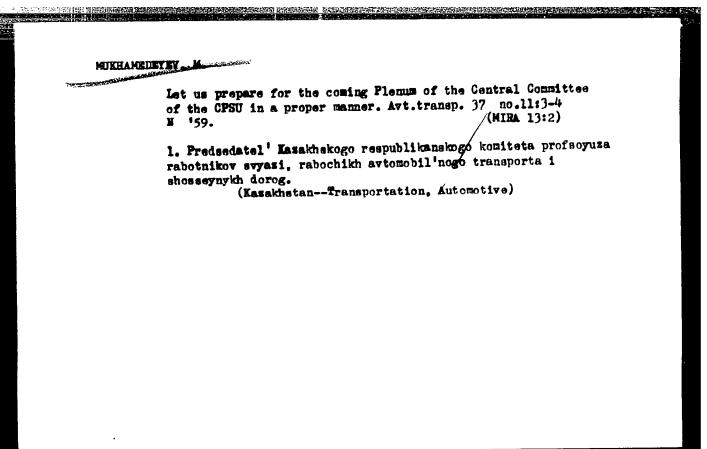
and Kaunas was necessary to adapt it for use Vilnius with rural ATS equipment; VChR apparatus, for radiofication of villages, was also converted. A.K. Churenkov, chairman of the Moscow Municipal Trade Union Committee, spoke of increased obligations taken on by leading collectives of the Central Telegraph Office of the USSR, the TsMTS (Central Inter-city Telephone Station), the Moskovskaya direktsiya radiosvyazi i radioveshchaniya (Moscow Radio Communications and Broadcasting Board), the Moskovskoye upravleniye perevozki pochty (Moscow Postal Transport Administration) and the Zavod TsKB (TsKB Works); mentioned are Voronov, Karelina, and Raskatayeva, brigade leaders of the Central Telegraph Of-fice. The work of the Moscow Post Office and particular-ly Smirnov, chief of the Post Office, is criticised. L.I. Yusupov, deputy minister of communications of the RSFSR, spoke of the necessity for improving the preparation of macnine operator cadres, and for the TsNIIS to speed up development of mechanization and automation

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For Persistent Implementation of the Decisions of the June Plenary Session of the CC of the CPSU (At the IV Plenary Session of the CC of the Communications, Auto Transport and Highway Workers' Union)

facilities; also dealt with is the role of experts in improving existing techniques, as well as organization of work in communications enterprises; he notes that at present socialist competition of enterprise collectives within the RSFSR is being organized. A.I. Shevchenko, secretary of the VTsSPS, Ya.D. Faradzhev chairman of the Dagestanskiy olkom profsoyuza (Dagestan Oblast Trade Union Committee), I.M. Shchetinin, chair-man of the Chita Oblast Trade Union Committee, and L.G. Stolyarov, deputy chairman of the NTORIE imeni A.S. Popov, also spoke at the session. The Plenary Session of the CC of the Trade Union adopted a resolution putting forward concrete tasks for the implementation of the decisions of the June Plenary Session of the CC of the CPSU and the II Plenary Session of the VTsSPS, and furthering socialist competition for early fulfillment of Card 10/10 the Seven Year Plan.



Attention to the needs of man is the main thing. Avt. transp. 38 no.8:5-6 Ag '60. (MIRA 13:8) 1. Predsedatel' Lazakhskogo respublikanskogo komiteta profsoyusa rabotnikov Svyasi, rabochikh avtotransporta i shosseynykh dorog. (Lasakhstan—Transportation, Automotive)

L 52321-65 / EEC(b)-2/EWC(r)/EEC(k)-2/EWA(b)/EWA(k)/EWP(k)/EWT(1)/EEC(t)/FBD/T/ EWA(m)-2 Pf-4/P1-4/P1-4/Pm-4/Pn-4/Po-4/Peb IJP(c) WU UR/0386/65/001/001/0022/0026 ACCESSION NR: AP5013667 AUTHOR: Mukhamedgaliyeva, A. F.; Orayevskiy, A. H.; Strakhovskiy, G. M. CITURE Maser with two series resonators and a "molecular rin " umplifier SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki. Pis ma v redaktsiyu. Prilozheniye, v. 1, no. 1, 1965, 22-26 TOPIC TAGS: maser, two beam maser, molecular ringing, maser line width ABSTRACT: A maser was investigated with two cascaded cavities and with two colliding beams, one cavity acting as generator and the other as amplifier, with an aim of checking the possibility of obtaining in this system a narrower spectral emission line than in a single-cavity maser. A schematic diagram is shown in Fig. 1 of the Enclosure. The system dimensions were & = 23 mm (length of each cavity) and L = 140 mm (distance between cavity ends). The beam of molecules, first polarized in one of the resonators, excites in the second resonator oscillations of the same frequency as in the first ("molecular ringing"). This "ringing" is amplified by the opposing intense beam of molecules. To attain approximate equality of the incoming and outgoing particles the intensity of the beam Card 1/4

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AP5013667 ACCESSION NR:

emplifying the "molecular ringing" is made several times larger than the intensity of the beam producing the generation. The line parrowing in such a system can be estimated from the decrease of the slope of the plot of the change of generation frequency vs. resonator frequency deviation. The expected line narrowing should have been 10-12, but since the losses of beam intensity in the gap between cavities were not fully compensated for, a much smaller narrowing was obtained. The test results are shown in Fig. 2 of the Enclosure and indicate that as the cavity in which generation takes place is detuned the system frequency does not vary continuously over the entire detuning range. The jumps in frequency can be attributed to the fact that in this system there should be, besides a principal maximum at the molecular-transition frequency, two secondary maxima differing in frequency by approximately 1/T from the principal maximum. If the line has such a shape, then jumps of frequency and amplitudes should be observed in the generation mode. Orig. art. has: 2 figures.

ASSOCIATION: Fizicheskiy institut Akademii nauk SSSR (Physics Institute, Academy

of Sciences, SSSR)

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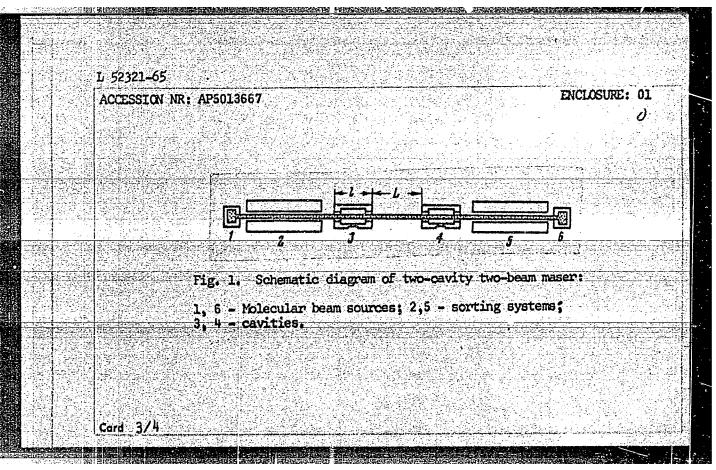
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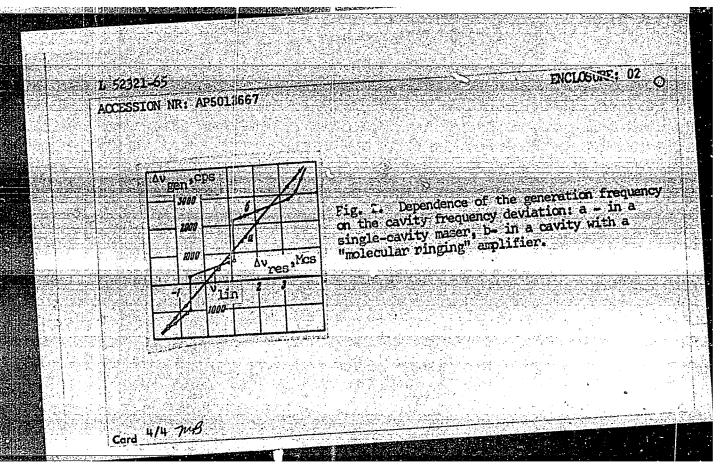
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MUKHAMEDGALIYEV, F.M., akademik

Farming practices in Kasakhstan. Zemledelie 8 no.2:14-19 F '60. (MIRA 13:5)

1. President Kasakhskoy akademii sel'skokhosyaystvennykh nauk. (Kasakhstan—Agriculture)

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ACC NR. AP6011915	skly, A. N.; Strakiev
hamedraliyeva, A. F.; Olaye	AN SSSR)
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ORG: Institute ser with "mole	cular-rings
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medicika, v. 9, no. 2.	LINE NARROWING
TITLE: Investigation of a maser with minor source: IVUZ. Radiofizika, v. 9, no. 2, TOPIC TAGS: maser, molecular generator imental investigation	molecular ringing,
- HIGICO	t a maser (a)
TOPIC TAGS: History	is reported of a two opposing beams, as
TOPIC TAGS: maser, molecular generator two series an amplifum molecular molecular generator. Oscillations in the above two series and the series are series are series and the series are	is reported of a maser (see figure, which is resonators and two opposing beams; one suppositions as a generator, the other, as functioned as a generator, the other, as
ABSTRACT.	functioned _ sources
an amplifund molecular mol	heams, 2 - sorting systems,
molecula	maser were calculated for the close to
Oscillations in the above	ation frequency was asset the resonator length
3 - resonators. Oscillations in the general saturation operating conditions; the general saturation operating conditions; the general the molecular-transition frequency. In the molecular-transition frequency are sonat was 2.3 cm, distance between the resonat	r beams, 2 solution of ar-from- maser were calculated for far-from- maser were calculated for far-from- ation frequency was assumed to be close to ation frequency as a second of the resonator length ors, 16 cm. Experimental curves of:
saturation operation frequency.	ors, lo citt
the molecular distance between the	UDC: 621.378.33
was 2. 3	UDC: 621.378.33
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L 11759-66

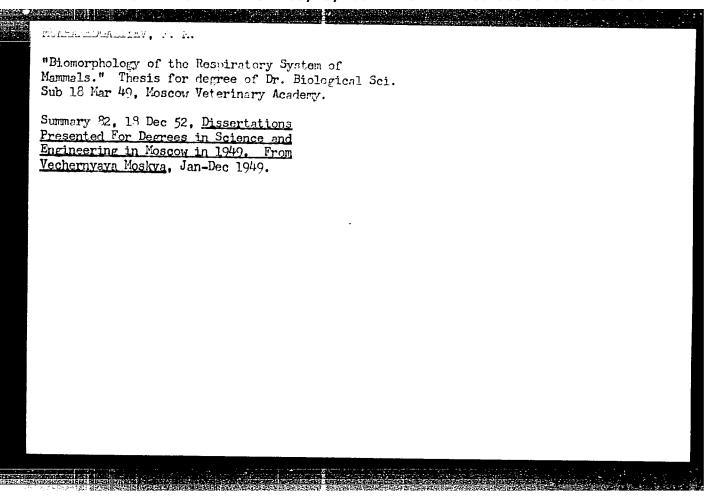
ACC NR: AP6011915

generation frequency and amplitude vs. tuning of the generating resonator (at pressures 0.3, 1, 1.5 torr in the amplifying-beam source); generation frequency vs. tuning of the amplifying resonator (at the same pressures) are shown. The experimental characteristics have two frequency and amplitude jumps which are explained by two additional side maxima frequency-spaced from the principal maximum by 1.2 T⁻¹; the generation between the jumps takes place on different peaks of the Ramsey curve. It is found that the line width in the above system is 1/5 to 1/4 that of a single-resonator maser. Orig. art. has: 4 figures and 3 formulas.

SUB CODE: 20 / SUBM DATE: 10Aug65 / ORIG REF: 004 / OTH REF: 003

Cord 2/2 0

EEC(k)-2/EWP(k)/EWT(1)/FBD/T IJP(c) WG SOURCE CODE: UR/0109/66/011/005/0943/0943 L 41613-66 53 ACC NRIAP6014252 AUTHOR: Mukhamedgaliyeva, A. F.; Strakhovskiy, G. M. B TITLE: Effect of the coupling between resonator and vacuum-envelope upon the maserfrequency stability SOURCE: Radiotekhnika i elektronika, v. 11, no. 5, 1966, 943 TOPIC TAGS: maser, molecular generator, molecular ringing , FREQUENCY STABILITY ABSTRACT: Experiments have shown that the vacuum envelope of a maser acts as a second (external) resonator and causes a "molecular ringing" affecting the maser frequency stability. This short note suggests that, in order to ensure high frequency stability, the maser must be equippped with two series-connected resonators, of which the first resonator must have no side ports. In the single-resonator case, the envelope Q-factor must be kept low by using suitable materials and coatings. Orig. art. has: no figures, no formulas, no tables. SUB CODE: 20 / SUBM DATE: 11Aug65 / ORIG REF: 001 / OTH REF: 001 UDC: 621.378.33



MUKHAMEDOALITEY, F.M. Some problems in breed morphology. Trudy Inst.morf.zhiv. no.?l: 117-123 '60. (MIRA 13:6) 1. Institut eksperimental'noy biologii Akademii nauk Kazakhskoy SSR. (Sheep breeds)

MUKMAMEDGALIYEV, F.M.; RAZOZNAYEV, K.M.

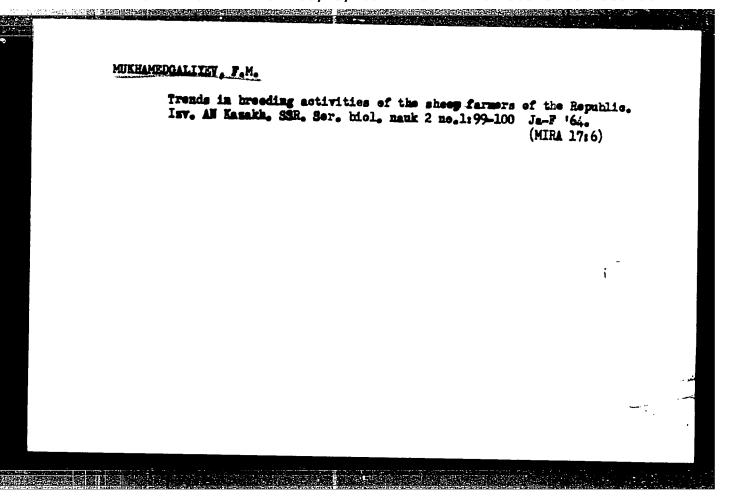
Use of heterosis in animal husbandry. Izv. AN Kazakh. Ser. biol.

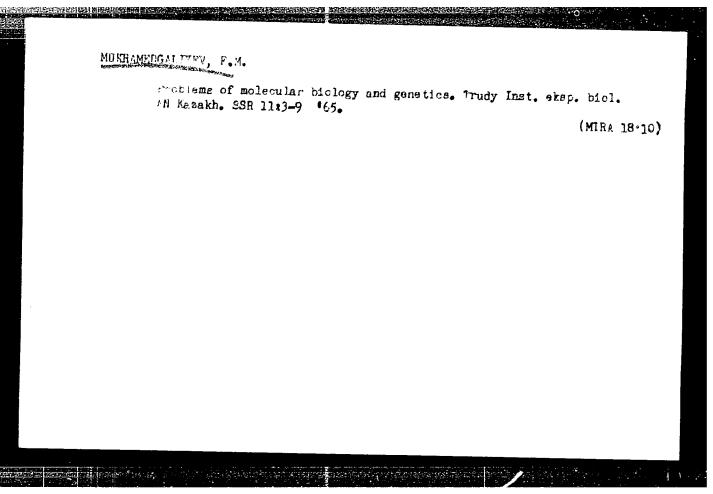
nauk no. 3:14-20 '63. (MIRA 17:9)

MUKHAMEDGALIYEV, F.M. Some laws governing the individual development of farm animals and problems of higher fertility and efficient rearing of young animals. Trudy Inst. eksp. blol. AN Kazakh. SSR. 1:3-9 '64. (MIRA 18:4)

MUKHAMEDGALIYEV, F.M.; MATVITENKO, V.F.; IEBEDEVA, N.G.

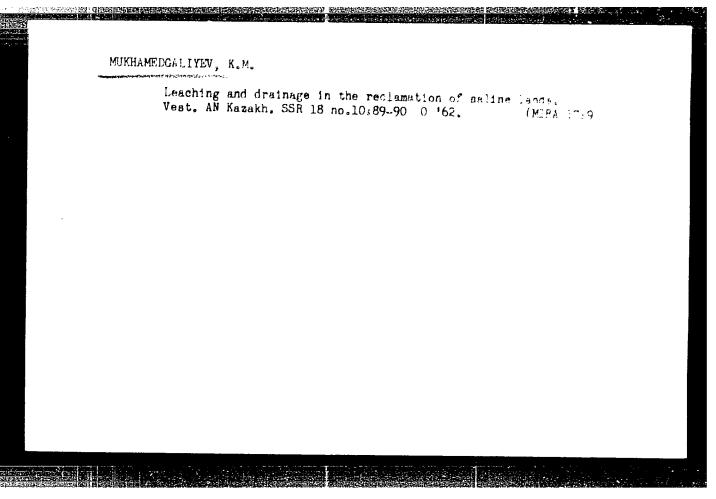
Skeletal age-related changes in Kazakh fine-wool sheep. Trudy Inst. eksp. biol. AN Kazakh. SSR. 1:10-53 '64. (MIRA 18:4)

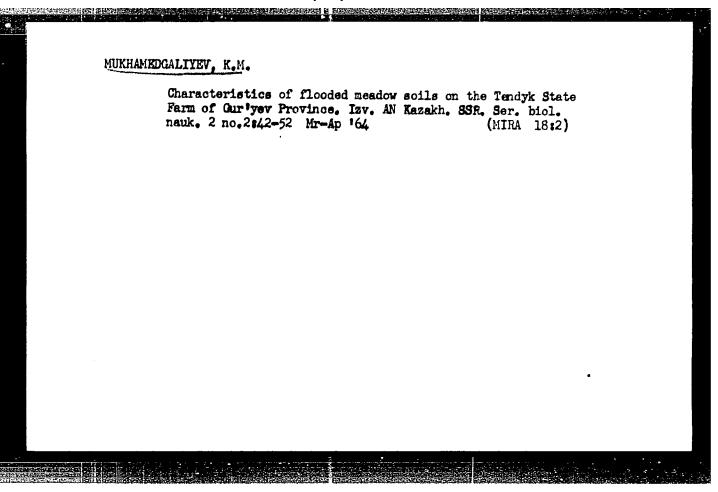




MUKHAMEDGALIYEV, F.M. Problems of modern genetics. Vest. AN Kazakh. SSR 21 no.9; 3-9 S '65. (MIRA 18:9)

1. Chlen-korrespondent AN Kazakhskoy SSR.





MUKHAMEDGALIYEVA, A.F.; ORAYEVSKIY, A.N.; STRAKHOVSKIY, G.M.

Molecular generator with two series resonators and an amplifier of "molecular sound." Pis'. v red. Zhur. eksper. i teor. fiz. 1 no.1:22-26 Ap '65. (MIRA 18:9)

1. Fizicheskiy institut AN SSSR.

MUKHAMEDGALIYEVA, A.F.; STRAKHOVSKIY, G.M.

Molecular generator with two series resonators on two opposing beams. Izv. vys. ucheb. zav.; radiofiz. 8 no.4:824-826 '65.

(MIRA 18:9)

1. Fizicheskiy institut imeni P.N. Lebedeva AN SSSR.

S/141/61/004/002/004/017 E032/E314

Mukhamedgaliyeva, A.F. and Khohklov, R.V.

On the Stability of Oscillations in a Molecular AUTHORS:

Generator (Maser) TITLE:

Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1961, Vol. 4, No. 2, pp. 259 - 262 PERIODICAL:

The theory of a maser can be set up with the aid of the polarisation function P defining the density function D. These two functions are defined by

$$P(\mathbf{x}, t) = P(e^{i\omega_{s}t} C_{12} + e^{-i\omega_{s}t} C_{21});$$

$$D(\mathbf{x}, t) = C_{22} - C_{11},$$

where $C_{ik}(x, t)$ are the elements of the density matrix,

is the dipole moment and

is the transition frequency.

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CIA-RDP86-00513R001135520011-2" APPROVED FOR RELEASE: 03/13/2001

S/141/61/004/002/004/017 E032/E314

On the Stability of

When a field of the form $\varepsilon = E(t)\cos\left[\omega_0 t + \phi(t)\right]$ is applied, the approximate expressions for P and D are shown by Lyubimov and Khokhlov (Ref. 8) to be of the form

$$\frac{\partial D}{\partial \tau_i} = \frac{1}{2hv} E(\tau_i) P_1;$$

$$\frac{\partial P_1}{\partial \tau_i} = \varphi'(\tau_i) P_2 - \frac{p^2}{2hv} E(\tau_i) D;$$

$$\frac{\partial P_2}{\partial \tau_i} = \varphi'(\tau_i) P_1$$
(1)

These are subject to the boundary conditions D = B(v), $P_1 = P_2 = 0$ when $\eta = -\xi$ and $\xi = x - vt$, $\eta = x + vt$ and P_1 and P_2 are the active and reactive components of the polarisation. In addition to the set of equations (1),

Card 2/6

On the Stability of

S/141/61/004/002/004/017 E032/E314

non-stationary processes are described by a further two differential equations for slowly varying field amplitudes and phases. However, in most cases, these differential equations can be approximately reduced to the algebraic equations

$$-(\omega_0/2Q)E - 2\widetilde{\omega}_0\widetilde{P}_1 = 0; \quad \triangle - 2\widetilde{\omega}_0\widetilde{P}_2/E = 0$$
 (2)

where $\triangle = \omega_{\text{res}} - \omega_{\text{o}}$ and P_{1} and P_{2} are averaged over x and over v. Substituting Eq. (2) into Eq. (1), one obtains a set of three integro-differential equations. These equations are then applied to the case of a beam of molecules, all having the same velocity. In the neighbourhood of the steady state

$$E(t) = E_0 + \varepsilon e^{\lambda t}; \quad \delta = \phi(t) = \delta_0 + -g_e^{\lambda t}$$

where ε and ϑ are first-order quantities, as compared Card 3/6

S/141/61/004/002/004/017 E032/E314

On the Stability of

with steady-state values of E $_{\rm O}$ and $^{\rm 5}_{\rm O}$. The polarisation functions can be written down in the form

$$P_1 = P_1^0 + P_1 e^{\lambda t}; \quad P_2 = P_2^0 + P_2 e^{\lambda t},$$

where p_1 and p_2 are small deviations from the steady state. It can be shown that ϵ and ϑ are given by

$$\epsilon = -4\pi Q \overline{p}; \qquad \theta = \frac{\omega_0}{2Q} \frac{1}{\overline{P_1^{02}}} (\overline{P}_1^0 \overline{p}_2 - \overline{P}_2^0 \overline{p}_1).$$

The set of equations has a non-trivial solution when the corresponding determinant is equal to zero, in which case we have the following equation in $\Lambda = \lambda/2v$

$$Y_{5}\Lambda^{5} + Y_{4}\Lambda^{4} + Y_{3}\Lambda^{3} + Y_{2}\Lambda^{2} + Y_{1}\Lambda + Y_{0} + e^{-2\Lambda L}(y_{3}\Lambda^{3} + y_{2}\Lambda^{2} + y_{1}\Lambda + y_{0}) + e^{-4\Lambda L}(z_{1}\Lambda + z_{0}) = 0,$$

Card 4/6

S/141/61/004/002/004/017 E032/E314

On the Stability of

where Y_n , y_n and z_n are functions of E_o , δ_o , ϵ and \Im . A positive root is obtained when

$$[Y_{5}\Lambda^{5} + Y_{4}\Lambda^{4} + Y_{3}\Lambda^{3} + Y_{2}\Lambda^{2} + Y_{1}\Lambda + Y_{0} + e^{-4\Lambda L}(z_{1}\Lambda + z_{0})]'' >$$

$$> [e^{-2\Lambda L}(y_{3}\Lambda^{3} + y_{2}\Lambda^{2} + y_{1}\Lambda + y_{0})]''.$$

This inequality can be used to establish the boundaries of the instability region. This analysis is then extended in a qualitative way to the case when there is a velocity distribution. It is concluded that if this velocity spread in the molecular beam is not large, then there are regions of parameter values in which instability sets in. The instability disappears in the case of a large velocity spread. There are 2 figures and 8 Soviet references.

Card 5/6

S/141/61/004/002/004/017 E032/E314

ASSOCIATION:

On the Stability of

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

September 29, 1959

Card 6/6

YEFIMOV, V.V.; FERANIDI, K.I.; MUKHAMEDIN, S.

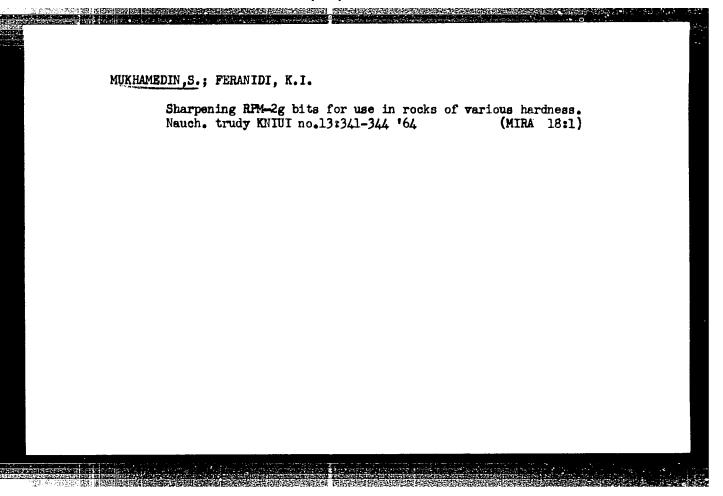
Boring bit with three nonradially arranged cutting edges. Gor. ahur. no.5:73 My '65. (MPA 13:5)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut.

GEL'FAND, F.M., inzh.; MARKMAN, L.D., inzh.; MUKHAMEDIN, S., tekhnik; MIKHAYLYUK, V.N., tekhnik

The RPM-2 bit for the rotary boring of holes in rocks. Shakht. stroi. 5 no. 3:12-14 Mr 161. (MIRA 14:2)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut.
(Boring machinery)



YEFIMOV, V.V.; FERANIDI, K.I.; MUKHAMEDIN, S.

Stand testing of a new design of bit with broken line edges for the impact drilling of holes. Nauch. trudy KNIUI no.14:234-239 '64.

(MIRA 18:4)

MUKHAMEDIYAROV, G.Z., dotsent

Chen-chiu therapy of some skin diseases. Kaz. med. zhur. no.1:54-56 Ja-F '62. (MIRA 15:3)

l. Kafedra kozhnykh i venericheskikh bolezney (zav. - prof. Ya.D. Pechnikov) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina.

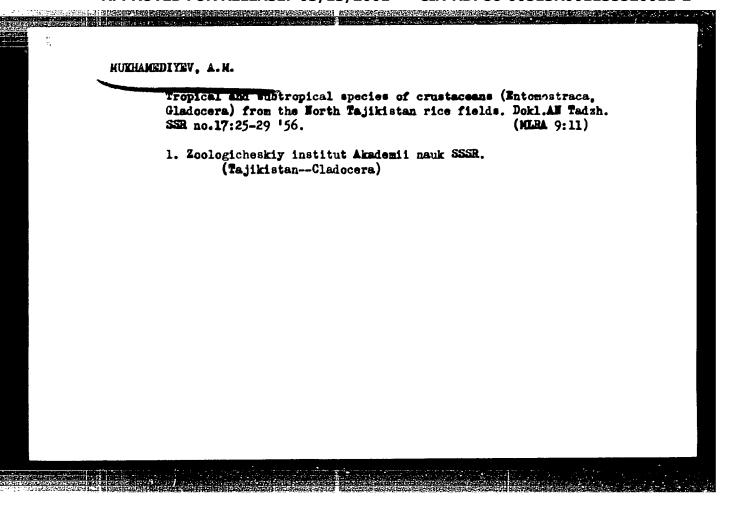
(STITE-DISPASES)

(SKIN-DISEASES)

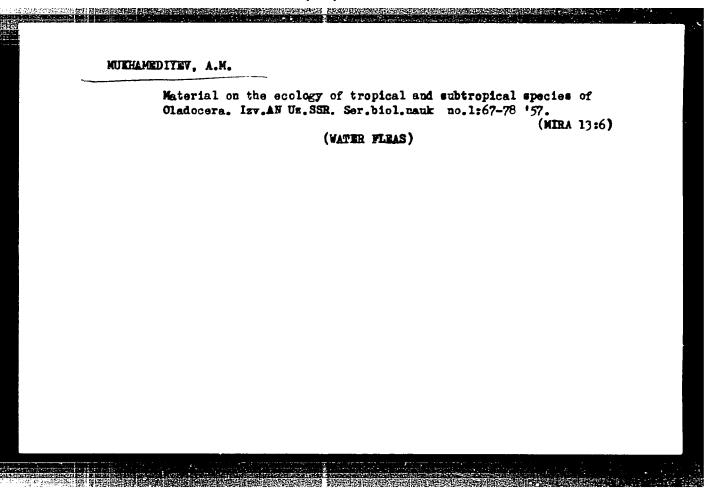
MUKHAMEDIYEV, A.A.

Plant lice (Homoptera, Aphididae) of the Fergana Valley. Uzb. biol. zhur. 8 no.4:64-66 '64. (MIRA 18:7)

1. Institut zoologii i parazitologii AN UzSSR.

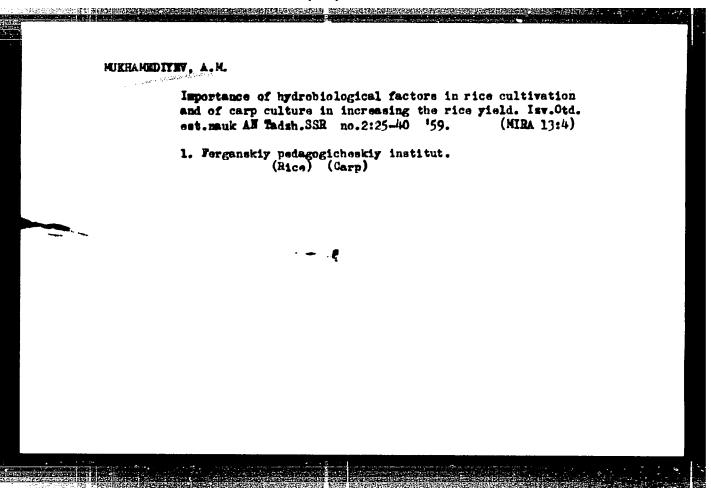


MUKHAMEDIYEV, A.M.		
Biological productivity of rice fields of Uzbekistan. tem.sov. no.1:82-84 151. (UzbekistanFresh-water biology) (UzbekistanRice)	Trudy probl.1 (MLRA 9:7)	
	Market Control	



MUKHAMEDIYEV, A. M. Doc Biol Sci -- (diss) "Hydrobiology of the reservoirs of the Feregana Valley and the importance of hydrobiological factors in the raising of rice yields." Len, 1958. 26 pp (Zoological Inst of the Acad Sci USSR), 200 copies. List of author's works at end of text (KL, 14-58, 111)

-33-



MUKHAMEDIYEV, A.M.

New water flea species (Cladocera, Crustacea) from rice fields of the Fergana Valley. Uzb. biol. zhur. no.3:35-38 '60. (MIRA 13:7)

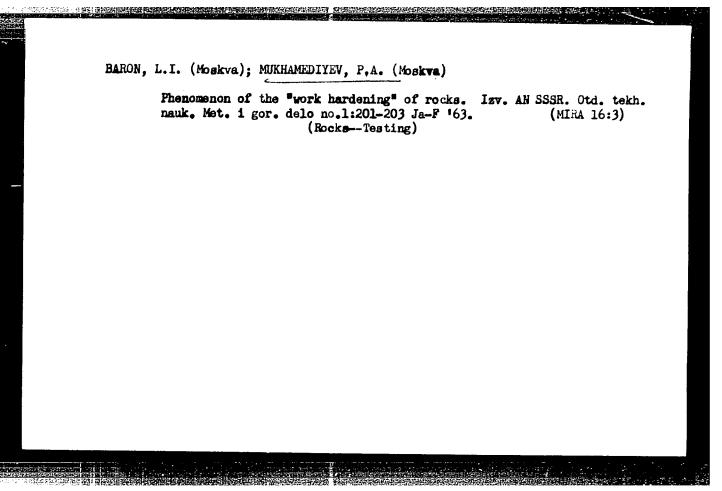
1. Ferganskiy gosudarstvennyy pedagogicheskiy institut. (FERGANA-WATER FLEAS)

MUKHAMEDIYEV, A.M.

New species of water fleas (Crustaces, Cladocera) from the bodies of water of the Fergana Valley. Uzb.biol.zhur. 7 no.2178-82163. (MIrA 16:8)

1. Ferganskiy gosudarstvennyy pedagogicheskiy institut. (FERGANA—CLADOCERA)

Progressive worker formed by the collective. Neftianik 7 ne, 11:21 (MIRA 16:6) (No subject headings)



WUKHAMEDIYEV, R.I., dotsent, kandidat biologicheekikh nauk.

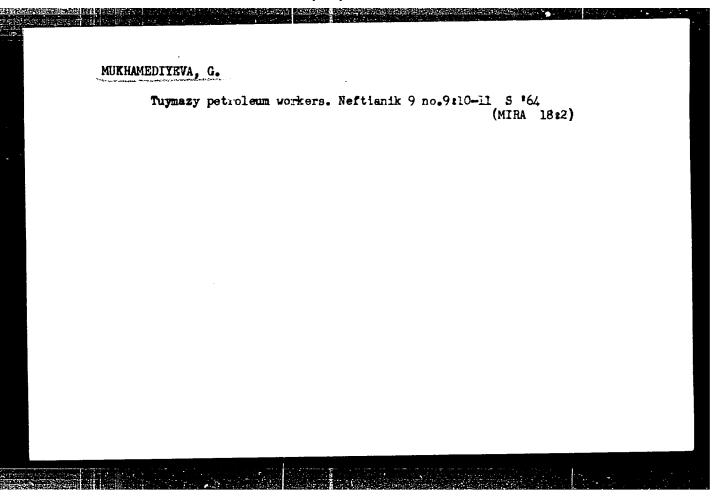
Urea production function of the liver in hypertheraia. Biul.SAGU no.28:105-125 '49. (MLGA 9:5)

(Urea) (Liver)

MUKHAMEDIYEVA, F.D.

Materials on the biology of the Transcaspian Varicorhiums capoeta heratensis (keyserling) in the Tedzhen Reservoir.
Nauchof (keyserling) in the Tedzhen Reservoir.
Nauchof (keyserling) in the Tedzhen Reservoir.
Nauchof (keyserling) in the Tedzhen Reservoir.

l. Rekomendovana kafedroy zoologii Turkmenskogo gosudarstvennogo universiteta im. A.M. Gor'kogo.
(TEDZHEN RESERVOIR---CARP)



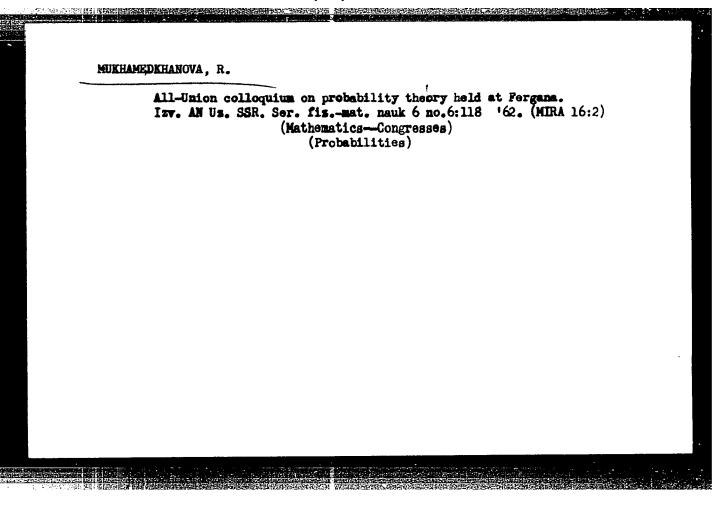
HOMEAFEDMENFOV, D.

32562. Povysit' uroven' rajoty s selskoknosyaystvennymi ka rami Jots. sel. khoz-vo
Uzgekistana, 17 9, No. 3, s. 66-70

30: Letojis' Zhurmal'nykh Statey, Vol. H., Moskva, 1949

MUKHAMEDKHANOV, S.; BONDAHENKO, M.N., red.; SALAKHUTDINOVA, A.,
tekhn. red.

[Chemical method for increasing cotton yields] Khimicheekii
sposob powysheniia uroshaia khlopka. Tashkent, Gosizdat UmSSR,
(MIRA 16:5)
1962. 33 p.
(Usbekistan--Cotton growing) (Growth promoting substances)



ACCESSION NR: AR4039854

8/00世/8/000/00世/1000/10010

SOURCE: Ref. zh. Matematika, Abs. 4V43

AUTHOR: Mukhamedkhanova, R.

TITIE: A more precise limit theorem in the theory of branching random processes.

CITED SOURCE: Tr. In-ta matem. AN UZSSR, vy*p. 22, 1961, 111-120

TOPIC TAGS: limit theorem, branching random process, theory, asymptotic expansion, factorial moment

TRANSIATION: In the scheme of branching random processes, homogeneous in time (continuous time), with one type of particle, an asymptotic expansion is developed for the probability of the non-degenerate process Q(t), in powers of end, under the assumptions that a sufficient number of factorial moments are exist, that the first factorial moment are is negative, and that t — eo. V. Zolotarev.

DATE ACQ: 15May64

SUB CODE: MA

ENCL: 00

Card 1/1

MUKHAMEDKULOV, M., Candidate Biol Sci (diss) -- "The acclimatization and cultivation of nutria in Uzbekistan". Tashkent, 1959. 21 pp (Inst of Zoology and Parasitology of the Acad Sci Uzbek SSR), 175 copies (KL, No 24, 1959, 132)

Coypu in Tashkent Pr	owince. Uzb.biol.shur. no.	1:55-58 '59. (HIRA 12:7)
1. Institut soologii (Tashkent	i parazitologii AN UzSSR. ProvinceCoypu)	

NUKEANEDRULOV, N. Data on the eating habits of the coypu in Tashkent Province. Dokt.AN USSR no.1:57-59 '59. 1. Institut soologii i paraitologii AN USSR. Predstavleno akademikom AN USSR T.2.Zakhidovym. (Tashkent Province—Coypu)

ACC NR AP7001170 (A, N) SOURCE CODE: UR/0439/66/045/007/1111/1112

AUTHOR: Mukhamedkulov, M. M.

ORG: Institute of Zoology and Parasitology, AN Uz 55 R , Tashkent (Institut zoologii i parazitologii AN Uzbekskoy SSR)

TITLE: Distribution of mouse species in the Surkhan river basin

SOURCE: Zoologicheskiy zhurnal, v. 45, no. 7, 1966, 1111-1112

TOPIC TAGS: zoogeography, rodent, mouse, zoology, 3102061C Ecology

AHSTRACT: Data on the distribution of rodents in the Surkhan river basin of southern Uzbekistan were collected between 1960 and 1962. The following species were observed: Ochotona rutila, Allactaga severtzovi, Allactaga eleter, Alactagulus acontion, Rattus turkestanus, Mesokia indica, Mus musculus, Apodemus sylvaticus, Cricetulus migratorius, Rhombomys opimus, Meriones tamariscinus, Meriones meridi-

Card 1/2

UDC:599.323.4(575.1):591.9

CC NR.AP700	01170				
anus, Meriones erythrourus, Alticola argentatus, Microtus arvalis, Microtus carruthersi, Microtus afghanus, and Ellobius talpinus. These species are desert and foothill dwellers. Specimens of Apodemus sylvaticus and Mus musculus were found at altitudes over 3000 m. All species were widely distributed within the area studies.					
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Card 2/2	• •	•			

Po	olarographic de SR no.10:61-66	etermination of nitrites in sausages.			(MIRA 17:12	

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		d arr con A	•	M. Gentr I
11				

MUKHAMEDOV, A.A.

1. Srednesziatskiy pelitekhnicheskiy institut.
(Hard facing)

CIA-RDP86-00513R001135520011-2

22327

s/167/61/000/001/004/004 A104/A133

also 1583,1418

Mukhamedov, A.A.; Mikhaylov, M.M. 18 8300

Selecting an expedient sulfidization method AUTHORS:

PERIODICAL: Izvestiya Akademii nauk. UzSSR. Seriya tekhnicheskikh nauk, no. 1, TITLE:

The authors reviewing investigations carried out on this problem the authors reviewing investigations carried out on this problem cite Ref. 1 (V.V. Kostkin, P.I. Gorezko, P.A. Mishin and Ya.S. Buraya: "Sulfidization of Friction Surfaces", ITEIN AS USSR, 13, M., 1954); Reference 2 (A.G. zation of Friction Surfaces, firm AS USSN, 13, M., 1974); neterefice 2 (A.G. Livshits, F.Z. Skvortsov and A.V. Tiratsuyan, "Sel'khozmashinostroyeniye", 1958, Livishits, F.Z. Skvortsov and A.V. Tiratsuyan, Sei knozmasninostroyeniye, 1950, and Ref-7); Reference 4 (D.A. Draygor, "Vestnik mashinostroyeniya", 1958, 2); and Ref-7); Reference 4 (D.A. Draygor, "Vestnik mashinostroyeniya", 1968, 2) erence 5 (L.Yu. Pruzhanskiy, "Vestnik mashinostroyeniya", 1958, 9) according to which milital matter in the antismetter and according to which sulfidization increases mainly the antifriction properties of the friction which sufficient increases mainly the antiffiction properties of the friction surfaces, whereas according to Reference 3 [Sh.I. Preygerzon, N.Y. Yanchenko and surraces, whereas according to neterence 3 [311.1. Freygerzon, N.1. Idinteriate and A.P. Voytikova, "Mashinostroitel' Belorussii, 1 (2), Minsk, 1956], the wear-resistance remains the same or decreases according to Reference 9 (Ye.P. Nadeinskaya, "Machines and Instruments", 1955, 2). The purpose of this study is to investigate the wear-resistance and antifriction properties of sulfidized surfaces by elucidating their properties and the effect of acids on the basic material.

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22327

S/167/61/000/001/004/004 A104/A133

Selecting an expedient sulfidization method

Tests of sulfide coatings carried out with pure ferrous sulfide or mixed with 109 potassium ferrocyanide at 800°C showed high antifriction properties, whereas the wear-resistance did not increase. Sulfidization of steels and cast irons of pearlitic structure showed a higher wear-resistance and sulfidization in cyanide media increased the strength of the sulfide coatings and the antifriction characteristics. Tests were performed by V.A. Mirbayev on sintered and calibrated carbide specimens of 40 mm in diameter and 23.8 - 24.6% porosity. One group was sulfidized as described above and the second group was annealed in the same furnace in cast iron shavings. The annealed specimens were used to eliminate the effect of structural changes at 800°C on the test results. The second part of the friction couple was a bush made of "50" steel subjected to low hardening ($R_c = 55$ - 57) at a pressure of 10 kg/cm² and a sliding velocity of 0.608 m/sec. The tests showed that the abrasion of sulfidized carbide surfaces, caused by dry friction, is analogous to that of calibrated and annealed surfaces. This is a proof that sulfide coatings show antifriction properties only if the basic material has antifriction properties, e.g., in the case of ferro-graphite ceramets. For some tests kerosene was used as lubricant and the sliding velocity was increased to 0.985 m/sec. The abrasion of sulfidized and non-sulfidized surfaces proved almost identical. As most media contain a considerable quantity of cyanide components, the

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223**27**

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S/167/61/000/001/004/00+ A104/A133

process should be appropriately called sulfocyaniding. It has been stated by L. Marshall and S. I. Mansell (Ref. 11, "Reduction of Friction and Wear of Steels by Surface Sulfidization", Mashinostroyeniye, Collection of translation and reviews of foreign news, 1957, 1) that the effectiveness of this method is based on the dual character of the coating. This theory was investigated in the course of developing sulfocyaniding conditions in solid media. Specimens of 45% (45 Kh) steel were processed for 4 hours in a mixture of 40% ferrous sulfide, 36% carburizer, and 24% potassium ferrocyanide at 850°C. Control specimens were processed in a mixture of 60% carburizer and 40% potassium ferrocyanide, at the same pressure and sliding velocity as in previous test. The carburizer contained 80% charcoal and 20% barium carbonate. Specimens of pearlitic structure showed good results. Sulfur possesses a very low solubility in iron and produces brittle FeC and FeS2 compounds. Sulfur saturated carbon steel shows a reduced amount of carbon along the periphery. Tests with these or other carbon compounds were carried out at 800, 930 and 1,000°C for 3 - 4 hours. Sulfocementation proved impossible because sulfur pinches the \mathcal{Y}-zone which reduces the solubility of carbon in the iron and explains its displacement at high temperatures. For these reasons substances containing nitrogen are added. Compounds of 40% ferrous sulfide, 50% carburizer and 10% potassium ferrocyanide revealed at 800 - 900°C a hypoeutectoid

Card 3/5

Card 5/5

Selecting an...

Selecting an...

ponents prevent oxidation and accelerate the sulfidization but do not increase the wear-resistance. There are 4 figures and 12 Soviet-bloc references.

s/145/61/000/010/001/JOB D221/D304

Mukhamedov, A. A., Candidate of Technical Sciences Lezov, A. P., Senior Scientific Worker, Vinnik T.D., Senior Lecturer, and Rudyuk, S. I., Aspirant AUTHORS:

The effect of sulphiding on the wear resistance and antifrictional characteristics of friction surfaces TITLE:

Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroy. enie. no. 10. 1961. 37-44 PERIODICAL: arrier

TEXT: The article describes the results of investigations out on the wear resistance of grey cast iron, steel and metalceramics. Various conditions of sulphiding, such as temperature and media were kept identical in all cases The experiment. cerned valve pairs. The spools were made of 12XH3A (12KhNLA cerned valve pairs, the spoots were made of 12AM3A (12KBNLA 19)
XFCA (30KhGSA) and 40X (40Kh) steel, the sleete of 30KhGSA AILA (JUNNUSA) and TUA (40AH) Steel, the Steele SI JUNNUSA FIRE Parts of valves were subject to sulphiding after grinding Those made of 30KhGSA and 40Kh steel were treated in an ENIMS tach of Machine Took No. 200 and 1800 of Machine Took No. 200 made of Johnson and 40An steel were treated in an Enims tain of 72% $K_4 Fe(CN)_6$. 10% $Na_2 S_2 O_3$ and 18% of NaOH. During wear tests use

card 1/4